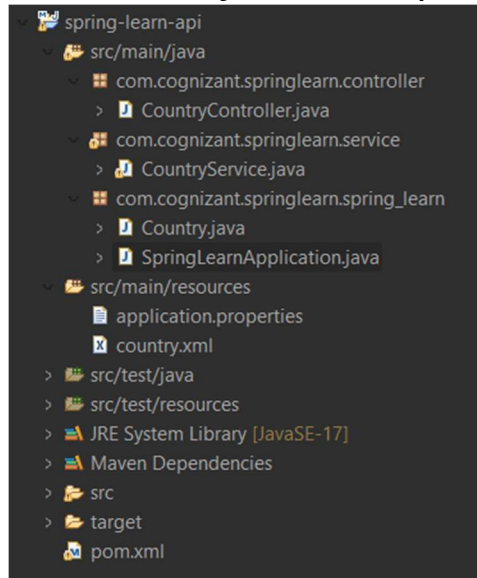


REST - Get country based on country code

Maven Project in Eclipse



Updated pom.xml with dependencies

```
1<?xml version="1.0" encoding="UTF-8"?>
2<project xmlns="http://maven.apache.org/POM/4.0.0"
3        xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4        xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 http://maven.apache.org/xsd/maven-4.0.0.xsd">
5    <modelVersion>4.0.0</modelVersion>
6    <groupId>com.cognizant.springlearn</groupId>
7    <artifactId>spring-learn-api</artifactId>
8    <version>0.0.1-SNAPSHOT</version>
9    <parent>
10        <groupId>org.springframework.boot</groupId>
11        <artifactId>spring-boot-starter-parent</artifactId>
12        <version>3.2.4</version>
13        <relativePath/>
14    </parent>
15    <properties>
16        <java.version>17</java.version>
17    </properties>
18    <dependencies>
19        <dependency>
20            <groupId>org.springframework.boot</groupId>
21            <artifactId>spring-boot-starter-web</artifactId>
22        </dependency>
23        <dependency>
24            <groupId>org.springframework.boot</groupId>
25            <artifactId>spring-boot-starter</artifactId>
26        </dependency>
27        <dependency>
28            <groupId>org.springframework.boot</groupId>
29            <artifactId>spring-boot-starter-logging</artifactId>
30        </dependency>
31        <dependency>
32            <groupId>org.springframework</groupId>
33            <artifactId>spring-context</artifactId>
34            <version>6.1.6</version>
35        </dependency>
36        <dependency>
37            <groupId>org.springframework</groupId>
38            <artifactId>spring-context</artifactId>
39        </dependency>
40    </dependencies>
41    <build>
42        <plugins>
43            <plugin>
44                <groupId>org.springframework.boot</groupId>
45                <artifactId>spring-boot-maven-plugin</artifactId>
46            </plugin>
47        </plugins>
48    </build>
49</project>
```

Added country.xml

```
1 <?xml version="1.0" encoding="UTF-8"?>
2 <beans xmlns="http://www.springframework.org/schema/beans"
3       xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
4       xsi:schemaLocation="http://www.springframework.org/schema/beans
5                           http://www.springframework.org/schema/beans/spring-beans.xsd">
6
7     <!-- Single Country Bean -->
8     <bean id="country" class="com.cognizant.springlearn.spring_learn.Country">
9         <property name="code" value="IN"/>
10        <property name="name" value="India"/>
11    </bean>
12
13    <!-- List of countries -->
14    <bean id="countryList" class="java.util.ArrayList">
15        <constructor-arg>
16            <list>
17                <bean class="com.cognizant.springlearn.spring_learn.Country">
18                    <property name="code" value="IN"/>
19                    <property name="name" value="India"/>
20                </bean>
21                <bean class="com.cognizant.springlearn.spring_learn.Country">
22                    <property name="code" value="US"/>
23                    <property name="name" value="United States"/>
24                </bean>
25                <bean class="com.cognizant.springlearn.spring_learn.Country">
26                    <property name="code" value="JP"/>
27                    <property name="name" value="Japan"/>
28                </bean>
29                <bean class="com.cognizant.springlearn.spring_learn.Country">
30                    <property name="code" value="DE"/>
31                    <property name="name" value="Germany"/>
32                </bean>
33            </list>
34        </constructor-arg>
35    </bean>
36 </beans>
```

Created CountryController.java class

```
1 package com.cognizant.springlearn.controller;
2
3 import com.cognizant.springlearn.spring_learn.Country;
4 import com.cognizant.springlearn.service.CountryService;
5 import org.springframework.beans.factory.annotation.Autowired;
6 import org.springframework.web.bind.annotation.*;
7
8 @RestController
9 public class CountryController {
10
11     @Autowired
12     private CountryService countryService;
13
14     @GetMapping("/country")
15     public Country getCountryIndia() {
16         return countryService.getCountry("IN");
17     }
18
19     @GetMapping("/countries/{code}")
20     public Country getCountry(@PathVariable String code) {
21         return countryService.getCountry(code);
22     }
23 }
```

Created CountryService.java class

```
1 package com.cognizant.springlearn.service;
2
3 import com.cognizant.springlearn.spring_learn.Country;
4 import org.springframework.context.ApplicationContext;
5 import org.springframework.context.support.ClassPathXmlApplicationContext;
6 import org.springframework.stereotype.Service;
7
8 import java.util.List;
9
10 @Service
11 public class CountryService {
12     public Country getCountry(String code) {
13         ApplicationContext context = new ClassPathXmlApplicationContext("country.xml");
14         List<Country> countryList = context.getBean("countryList", List.class);
15
16         return countryList.stream()
17             .filter(c -> c.getCode().equalsIgnoreCase(code))
18             .findFirst()
19             .orElse(null);
20     }
21 }
22 |
```

Created Country.java class

```
1 package com.cognizant.springlearn.spring_learn;
2
3 public class Country {
4     private String code;
5     private String name;
6
7     public Country() {
8         System.out.println("Inside Country Constructor");
9     }
10
11     public String getCode() {
12         return code;
13     }
14
15     public void setCode(String code) {
16         this.code = code;
17     }
18
19     public String getName() {
20         return name;
21     }
22
23     public void setName(String name) {
24         this.name = name;
25     }
26
27     @Override
28     public String toString() {
29         return "Country [code=" + code + ", name=" + name + "]";
30     }
31 }
```

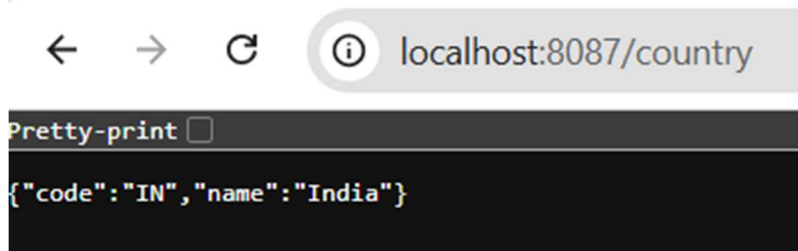
Created SpringLearnApplication.java class with main method

```
1 package com.cognizant.springlearn.spring_learn;
2
3 import org.springframework.boot.SpringApplication;
4 import org.springframework.boot.autoconfigure.SpringBootApplication;
5
6 @SpringBootApplication(scanBasePackages = "com.cognizant.springlearn")
7 public class SpringLearnApplication {
8     public static void main(String[] args) {
9         SpringApplication.run(SpringLearnApplication.class, args);
10    }
11 }
12
```

Created application.properties and updated with the local port number as 8087 to run

```
1 server.port=8087
2
```

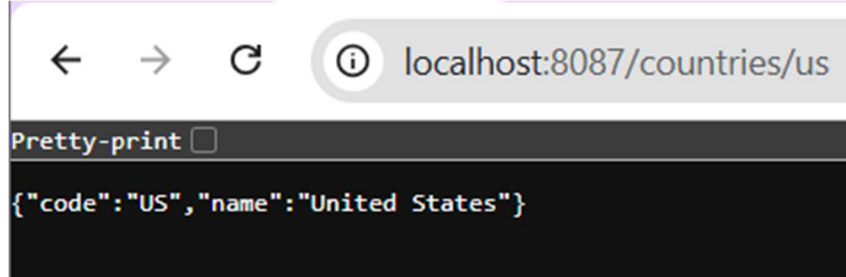
Runned the main() method and the required output has been received on 8087 port number the web page



← → ↻ ⓘ localhost:8087/country

Pretty-print ☐

```
{"code":"IN","name":"India"}
```



← → ↻ ⓘ localhost:8087/countries/us

Pretty-print ☐

```
{"code":"US","name":"United States"}
```